

Summer 2012 Product Catalog

READY FOR WORK



TOSHIBA
Leading Innovation >>>

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Ready for LED



Toshiba has over 120 years of lighting experience and a vast knowledge of electronics and semiconductors, making us uniquely qualified to create superior LED lighting products. And since we're not a lighting company trying to learn the electronics business or an electronics company trying to learn the lighting business – you can be confident we're developing the best possible lighting solutions based on LED technology.

Rest assured that the same company known worldwide for delivering quality laptops, televisions and other electronics is just as committed to delivering high-quality LED lighting to meet the demands of today's market. In fact, over two thirds of Toshiba's LED lamps are ENERGY STAR® qualified, making us one of the industry leaders. Overall, Toshiba is one of the largest lighting companies and LED manufacturers in the world, so you're not just buying lighting – you're buying a brand you can trust.

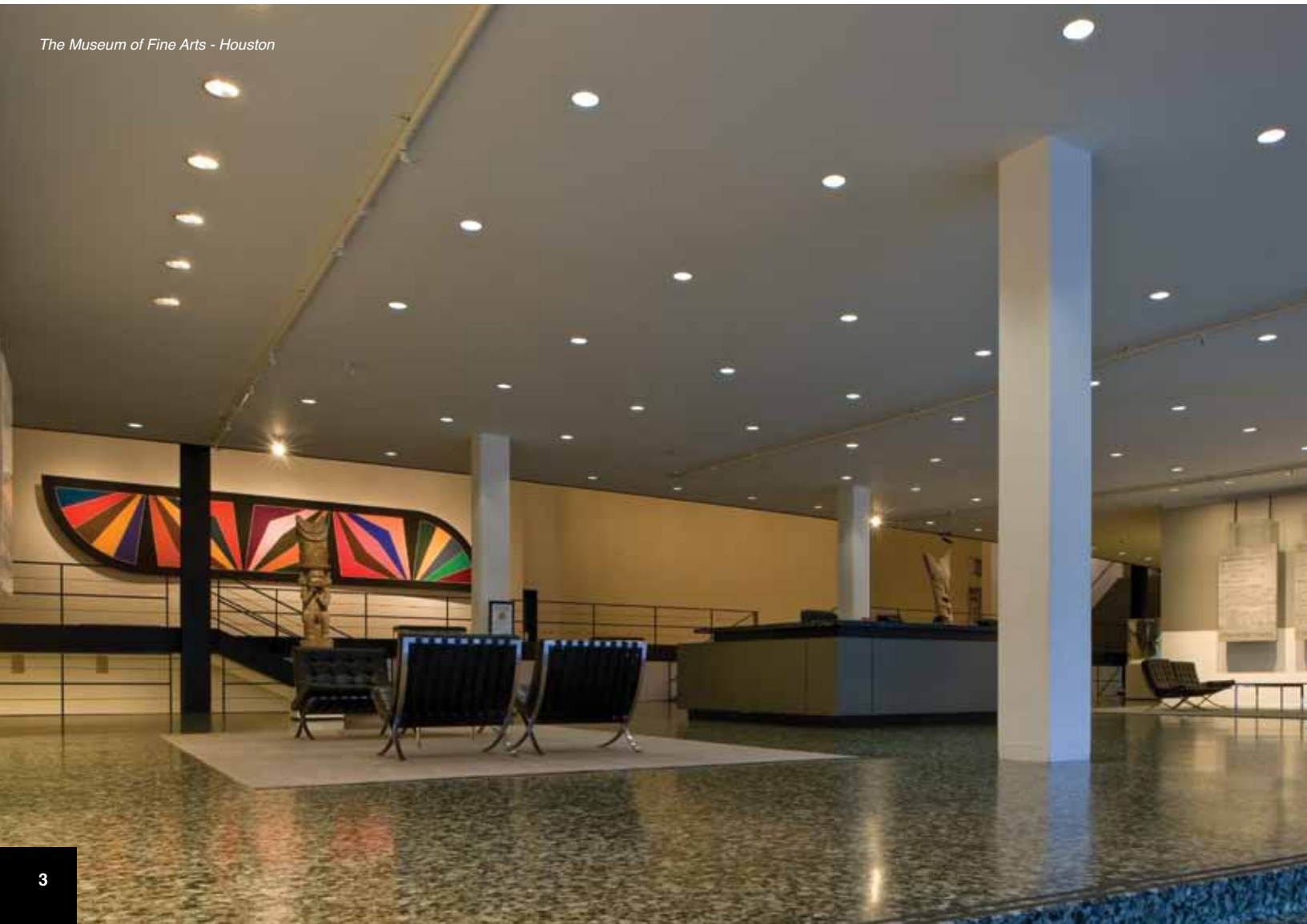
Ready for Anything

No matter what lumen output, color temperature or distribution options you need, Toshiba LED Lighting has you covered. We offer a broad array of LED lamps to meet a variety of applications including retail, hospitality and museum lighting. Lighting designers and architects are raving about our beautiful design, light quality and color consistency. With over 70 SKUs, you'll be able to find the right lighting for the right application.

- Superior light quality with a variety of color temperatures and distributions
- Over 70 SKUs to choose from
- Lasts up to 25 times longer and uses up to 85% less energy than incandescent and halogen lamps
- Emits up to 70% less UV light compared to halogen lamps
- Reaches full brightness instantly
- Designed to fit most gimbal rings
- Rated for both damp locations and enclosed fixtures
- Contains no mercury or lead



The Museum of Fine Arts - Houston





Starbucks™ – Times Square

Ready for Sustainability

Toshiba is helping to fulfill our Environmental 2050 Vision by forever changing the disposable notion of lighting. Our LED lighting products last up to 40 times longer than incandescents, which reduces landfill waste. Plus our LED lamps don't contain lead or mercury, are manufactured using recycled/recyclable materials and use significantly less energy than conventional lighting products. At Toshiba, we're leaving old lighting technology behind and moving forward with high-quality lighting that has less of an environmental impact.








PT's Gold – Las Vegas



A19 450 Series



Ordering Information

Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
8A19/27F-UP	120	A19	E26	8.4	2700K	450	53.6	25,000	81	> 0.74	40W Incandescent	0.4 (180)	
8A19/40F-UP	120	A19	E26	8.4	4000K	500	59.5	25,000	82	> 0.74	40W Incandescent	0.4 (180)	
8A19/27FZ-UP	120	A19	E26	7.7	2700K	450	58.4	25,000	81	> 0.74	40W Incandescent	0.4 (180)	
8A19/40FZ-UP	120	A19	E26	7.7	4000K	500	64.9	25,000	82	> 0.74	40W Incandescent	0.4 (180)	

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens ($\pm 10\%$).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on ENERGY STAR performance guidelines.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model A19
MOL (A) 4.35" (110.5 mm)
Diameter (B) 2.35" (59.7 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	40W Halogen
8A19/27F-UP	\$86.90
8A19/40F-UP	\$86.90
8A19/27FZ-UP	\$88.83
8A19/40FZ-UP	\$88.83

Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11¢/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

8	A19	27	F	Z	UP
Wattage	Lamp Type	CCT	Lumens	Non-Dimmable = Z	Packaging
8.4 Watts = 8	A19 = A19	2700K = 27 4000K = 40	450 Series = F		US Professional Package = UP

Candelabra 180 Series



Ordering Information

Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	Bulb Finish	ENERGY STAR
4B11/27CF-UP	120	B11	E12	3.8	2700K	185	48.7	25,000	82	0.63	25W Incandescent	0.10 (45)	Frost	●
4B11/27CC-UP	120	B11	E12	3.8	2700K	175	46.1	25,000	82	0.63	25W Incandescent	0.10 (45)	Clear	●

1. CCT Range complies to ANSI C78.377-2008.
2. Thermally stable typical lumens (± 10%).
3. Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
4. Equivalency based on ENERGY STAR performance guidelines.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model Candelabra
MOL (A) 4.26" (108.2 mm)
Diameter (B) 1.37" (34.8 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	40W Halogen
4B11/27CF-UP	\$38.87
4B11/27CC-UP	\$38.87

Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11¢/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

4	B11	27	C	C/F	UP
Wattage	Lamp Type	CCT	Lumens	Bulb Finish	Packaging
3.8 Watts = 4	B11 = B11	2700K = 27	185 Lumens = C 175 Lumens = F	Clear = C Frosted = F	US Professional Package = UP

MR16 GU5.3 300 Series



Ordering Information

Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
6MR16/827SP8	12	MR16	GU5.3	6.2	2700K	8°	270	43.5	25,000	5500	80	>0.70	25W Halogen	0.11 (49)	●
7MR16/827NFL25	12	MR16	GU5.3	6.7	2700K	25°	300	44.8	25,000	1250	80	>0.70	20W Halogen	0.11 (49)	●
7MR16/827FL35	12	MR16	GU5.3	6.7	2700K	35°	300	44.8	25,000	700	80	>0.70	20W Halogen	0.11 (49)	●
6MR16/830SP8	12	MR16	GU5.3	6.2	3000K	8°	275	44.4	25,000	5600	80	>0.70	25W Halogen	0.11 (49)	●
7MR16/830NFL25	12	MR16	GU5.3	6.7	3000K	25°	310	46.3	25,000	1250	80	>0.70	25W Halogen	0.11 (49)	●
7MR16/830FL35	12	MR16	GU5.3	6.7	3000K	35°	310	46.3	25,000	700	80	>0.70	25W Halogen	0.11 (49)	●
6MR16/840SP8	12	MR16	GU5.3	6.2	4000K	8°	280	45.2	25,000	5700	85	>0.70	25W Halogen	0.11 (49)	●
7MR16/840NFL25	12	MR16	GU5.3	6.7	4000K	25°	320	47.8	25,000	1250	86	>0.70	25W Halogen	0.11 (49)	●
7MR16/840FL35	12	MR16	GU5.3	6.7	4000K	35°	320	47.8	25,000	700	86	>0.70	25W Halogen	0.11 (49)	●

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens (± 10%).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model MR16 GU5.3 300 Series

MR16 8° Spot

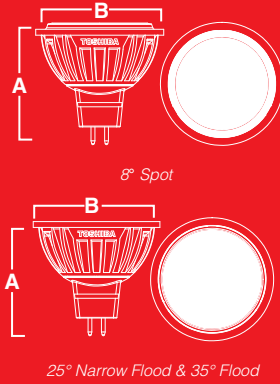
MOL (A) 1.87" (47.4 mm)

Diameter (B) 1.97" (50 mm)

MR16 25° Narrow Flood/ 35° Flood

MOL (A) 1.79" (45 mm)

Diameter (B) 1.97" (50 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	25W Halogen	35W Halogen	50W Halogen
6MR16/827SP8	\$51.70	\$79.20	\$120.45
7MR16/827NFL25	\$50.33	\$77.83	\$119.08
7MR16/827FL35	\$50.33	\$77.83	\$119.08

Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11c/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

6	MR16	827	SP8
Wattage	Lamp Type	CRI + CCT	Beam Angle
6.2 Watts = 6	MR16 GU5.3 = MR16	80 CRI + 2700K = 827	Spot 8° = SP8
6.7 Watts = 7		80 CRI + 3000K = 830	Narrow Flood 25° = NFL25
		86 CRI + 4000K = 840	Flood 35° = FL35

Illuminance Cone Diagrams

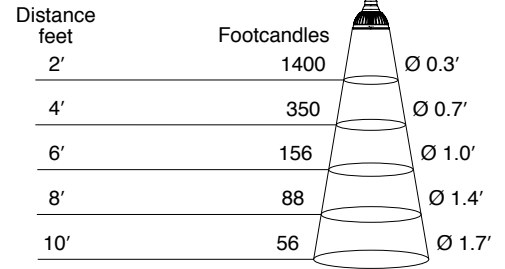
6MR16/827SP8

Wattage 6.2

Lumens 275

CBCP (cd) 5600

Beam Angle 8°



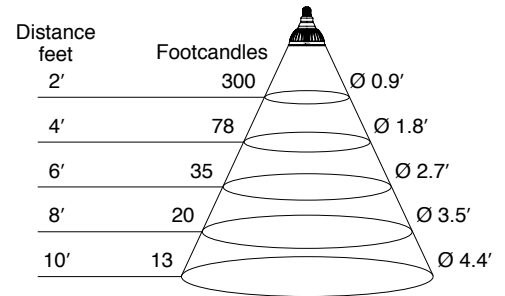
7MR16/830NFL25

Wattage 6.7

Lumens 310

CBCP (cd) 1250

Beam Angle 25°



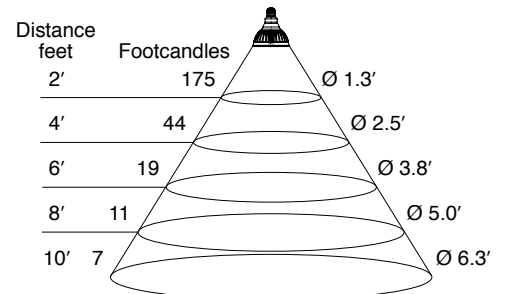
7MR16/830FL35

Wattage 6.7

Lumens 310

CBCP (cd) 700

Beam Angle 35°





Ordering Information

Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
9MR16/27FNF-UP	12	MR16	GU5.3	9.0	2700K	25°	410	45.6	25,000	1810	84	> 0.75	35W Halogen	0.2 (91)	N/A
9MR16/27FFL-UP	12	MR16	GU5.3	9.0	2700K	35°	415	46.1	25,000	990	84	> 0.75	35W Halogen	0.2 (91)	N/A
9MR16/30FNF-UP	12	MR16	GU5.3	9.0	3000K	25°	440	48.9	25,000	1900	84	> 0.75	35W Halogen	0.2 (91)	N/A
9MR16/30FFL-UP	12	MR16	GU5.3	9.0	3000K	35°	445	49.4	25,000	1040	84	> 0.75	35W Halogen	0.2 (91)	N/A
9MR16/40FNF-UP	12	MR16	GU5.3	9.0	4000K	25°	470	52.2	25,000	2030	85	> 0.75	35W Halogen	0.2 (91)	N/A
9MR16/40FFL-UP	12	MR16	GU5.3	9.0	4000K	35°	475	52.8	25,000	1110	85	> 0.75	35W Halogen	0.2 (91)	N/A

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens (± 10%).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

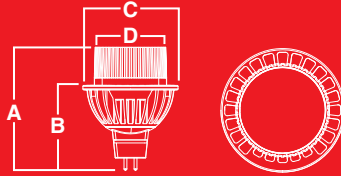
Model MR16 GU5.3 450 Series

MOL (A) 2.54" (64.5 mm)

MOL (B) 1.75" (44.5mm)

Diameter (C) 1.97" (50.0 mm)

Diameter (D) 1.46" (37.1mm)



25° Narrow Flood & 35° Flood



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

The lamp's unique form factor is specifically designed to be compatible with existing retention rings and most recessed and track head gimbals.

Energy Savings

Ordering Code	25W Halogen	35W Halogen	50W Halogen
9MR16/30FNF-UP	\$40.00	\$71.50	\$112.75
9MR16/30FFL-UP	\$40.00	\$71.50	\$112.75

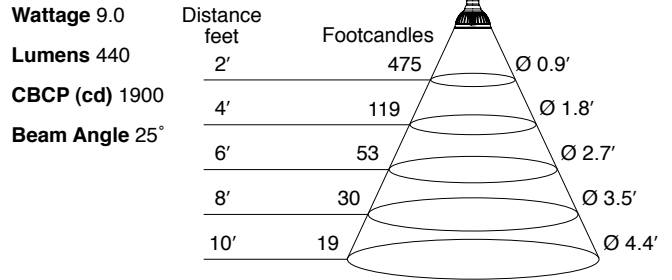
Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11c/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

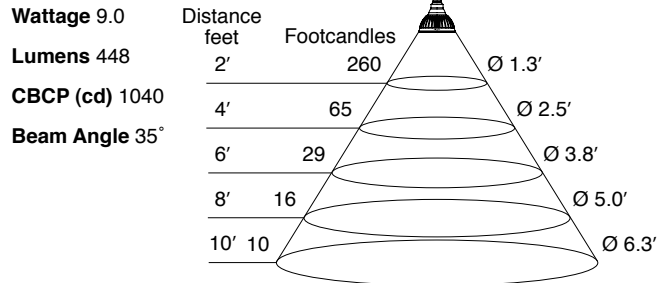
9	MR16	27	F	NF	UP
Wattage	Lamp Type	CCT	Lumens	NF = Narrow Flood	Packaging
9.0 Watts = 9	MR16 GU5.3 = MR16	2700K = 27 3000K = 30 4000K = 40	450 Series = F	FL = Flood	US Professional Package = UP

Illuminance Cone Diagrams

9MR16/30FNF-UP



9MR16/30FFL-UP



MR16 GU5.3 500 Series



Ordering Information

Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
9MR16/27GNF-UP	12	MR16	GU5.3	9.1	2700K	25°	510	56.0	25,000	2370	81	> 0.72	50W Halogen	0.2 (91)	N/A
9MR16/27GFL-UP	12	MR16	GU5.3	9.1	2700K	35°	510	56.0	25,000	1340	81	> 0.72	50W Halogen	0.2 (91)	N/A
9MR16/30GNF-UP	12	MR16	GU5.3	9.1	3000K	25°	525	57.7	25,000	2510	82	> 0.72	50W Halogen	0.2 (91)	N/A
9MR16/30GFL-UP	12	MR16	GU5.3	9.1	3000K	35°	525	57.7	25,000	1410	82	> 0.72	50W Halogen	0.2 (91)	N/A
9MR16/40GNF-UP	12	MR16	GU5.3	9.1	4000K	25°	540	59.3	25,000	2600	82	> 0.72	50W Halogen	0.2 (91)	N/A
9MR16/40GFL-UP	12	MR16	GU5.3	9.1	4000K	35°	540	59.3	25,000	1470	82	> 0.72	50W Halogen	0.2 (91)	N/A

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens (± 10%).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

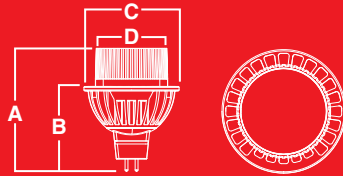
Model MR16 GU5.3 450 Series

MOL (A) 2.54" (64.5 mm)

MOL (B) 1.75" (44.5mm)

Diameter (C) 1.97" (50.0 mm)

Diameter (D) 1.46" (37.1mm)



25° Narrow Flood & 35° Flood



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

The lamp's unique form factor is specifically designed to be compatible with existing retention rings and most recessed and track head gimbals.

Energy Savings

Ordering Code	20W Halogen	25W Halogen	50W Halogen
9MR16/30GNF-UP	\$30.25	\$40.00	\$112.48
9MR16/30GFL-UP	\$30.25	\$40.00	\$112.75

Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11¢/kWh. Does not include maintenance and replacement lamp savings.

Illuminance Cone Diagrams

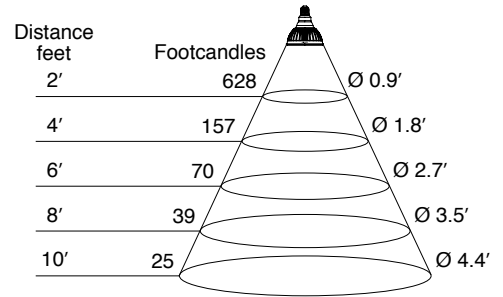
9MR16/30GNF-UP

Wattage 9.1

Lumens 525

CBCP (cd) 2510

Beam Angle 25°



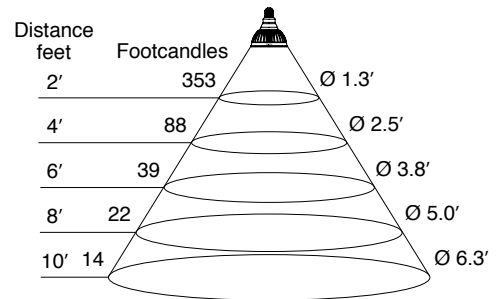
9MR16/30GFL-UP

Wattage 9.1

Lumens 525

CBCP (cd) 1410

Beam Angle 35°



Ordering Guide

9	MR16	27	G	NF	UP
Wattage	Lamp Type	CCT	Lumens	NF = Narrow Flood FL = Flood	Packaging
9.1 Watts = 9	MR16 GU5.3 = MR16	2700K = 27 3000K = 30 4000K = 40	500 Series = G		US Professional Package = UP



Ordering Information

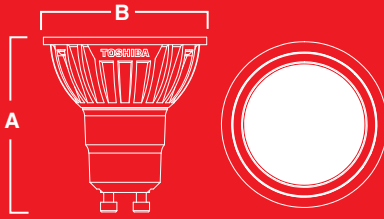
Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
7GU10/827NFL25	120	MR16	GU10	6.5	2700K	25°	270	41.5	25,000	1050	80	> 0.70	20W Halogen	0.14 (65)	N/A
7GU10/830NFL25	120	MR16	GU10	6.5	3000K	25°	280	43.1	25,000	1100	81	> 0.70	20W Halogen	0.14 (65)	N/A

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens (± 10%).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

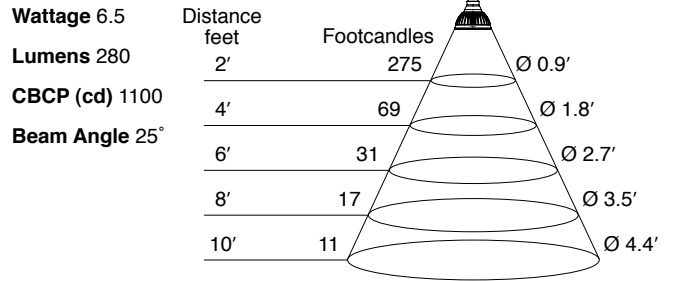
Model MR16 GU10
 MOL (A) 2.10" (53.5 mm)
 Diameter (B) 1.97" (50.0 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Illuminance Cone Diagrams

7GU10/830NFL25



Energy Savings

Ordering Code	20W Halogen	35W Halogen	50W Halogen
7GU10/830NFL25	\$37.13	\$78.38	\$119.63

Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11c/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

7	GU10	827	NFL25
Wattage	Lamp Type	CRI + CCT	Beam Angle
6.5 Watts = 7	MR16 GU10 = GU10	80 CRI + 2700K = 827 80 CRI + 3000K = 830	Narrow Flood 25° = NFL25

BR30 650 Series



Ordering Information

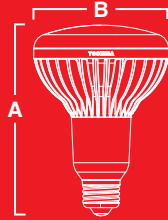
Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
14BR30/27H-UP	120	BR30	E26	13.8	2700K	650	47.1	40,000	85	>0.70	65W Halogen	0.71 (322)	N/A

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens ($\pm 10\%$).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on ENERGY STAR performance guidelines.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model BR30
 MOL (A) 5.29" (134.4 mm)
 Diameter (B) 3.74" (95.0 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	65W Halogen
14BR30/27H-UP	\$225.28

Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11c/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

14	BR30	27	H	UP
Wattage 13.8 Watts = 14	Lamp Type BR30 = BR30	CCT 2700K = 27	Lumens 650 Series = H	Packaging US Professional Package = UP



Ordering Information

Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
9P20/827SP8	120	PAR20	E26	8.6	2700K	8°	380	44.2	40,000	6600	80	> 0.70	60W Halogen	0.38 (172)	●
9P20/827NFL25	120	PAR20	E26	9.0	2700K	25°	390	43.3	40,000	1600	80	> 0.70	55W Halogen	0.41 (186)	●
9P20/830SP8	120	PAR20	E26	8.6	3000K	8°	385	44.8	40,000	6700	81	> 0.70	60W Halogen	0.38 (172)	●
9P20/830NFL25	120	PAR20	E26	9.0	3000K	25°	400	44.4	40,000	1600	80	> 0.70	55W Halogen	0.41 (186)	●

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens (± 10%).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

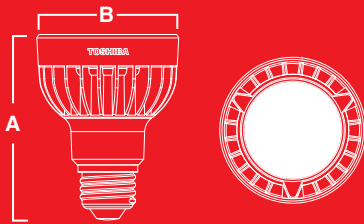
Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model PAR20

MOL (A) 3.26" (82.7 mm)

Diameter (B) 2.48" (63 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	35W Halogen	55W Halogen	60W Halogen
9P20/830SP8	\$116.16	\$204.16	\$226.16
9P20/830NFL25	\$114.40	\$202.40	\$224.40

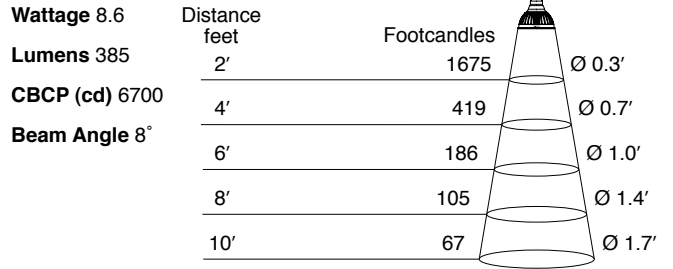
Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11c/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

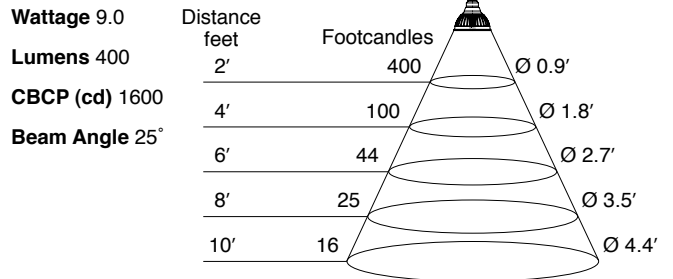
9	P20	827	SP8
Wattage	Lamp Type	CRI + CCT	Beam Angle
8.6/9.0 Watts = 9	PAR20 = P20	80 CRI + 2700K = 827 80 CRI + 3000K = 830	Spot 8° = SP8 Narrow Flood 25° = NFL25

Illuminance Cone Diagrams

9P20/830SP8



9P20/830NFL25



PAR30 Short Neck



Ordering Information

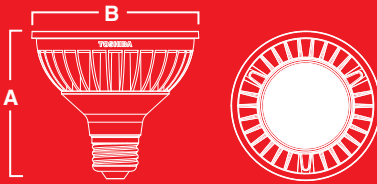
Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
16P30S/827SP8	120	PAR30	E26	15.6	2700K	8°	710	45.5	40,000	12500	81	> 0.70	70W Halogen	0.49 (224)	●
16P30S/827NFL23	120	PAR30	E26	16.3	2700K	23°	780	47.9	40,000	3600	80	> 0.70	70W Halogen	0.56 (255)	●
16P30S/827FL32	120	PAR30	E26	16.3	2700K	32°	780	47.9	40,000	1650	80	> 0.70	60W Halogen	0.56 (255)	●
16P30S/830SP8	120	PAR30	E26	15.6	3000K	8°	730	46.8	40,000	12700	82	> 0.70	70W Halogen	0.49 (224)	●
16P30S/830NFL23	120	PAR30	E26	16.3	3000K	23°	800	49.1	40,000	3800	80	> 0.70	75W Halogen	0.56 (255)	●
16P30S/830FL32	120	PAR30	E26	16.3	3000K	32°	800	49.1	40,000	1750	80	> 0.70	65W Halogen	0.56 (255)	●
16P30S/840SP8	120	PAR30	E26	15.6	4000K	8°	740	47.4	40,000	12800	84	> 0.70	70W Halogen	0.49 (224)	●
16P30S/840NFL23	120	PAR30	E26	16.3	4000K	23°	800	49.1	40,000	3800	86	> 0.70	75W Halogen	0.56 (255)	●
16P30S/840FL32	120	PAR30	E26	16.3	4000K	32°	800	49.1	40,000	1750	86	> 0.70	65W Halogen	0.56 (255)	●

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens (± 10%).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model PAR30 Short Neck
MOL (A) 3.29" (83.8 mm)
Diameter (B) 3.74" (95 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	50W Halogen	65W Halogen	75W Halogen
16P30S/830SP8	\$151.36	\$217.36	\$261.36
16P30S/830NFL23	\$148.28	\$214.28	\$258.28
16P30S/830FL32	\$148.28	\$214.28	\$258.28

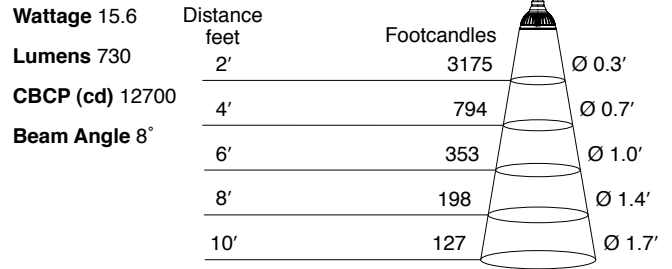
Note: Energy Savings based on using one bulb for 40,000 hr rated life at 11¢/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

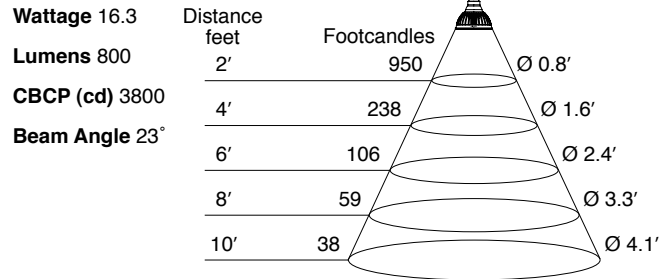
16	P30S	827	SP8
Wattage	Lamp Type	CRI + CCT	Beam Angle
15.6 Watts = 16	PAR30 SN = P30S	80 CRI + 2700K = 827 80 CRI + 3000K = 830 86 CRI + 4000K = 840	Spot 8° = SP8 Narrow Flood 23° = NFL23 Flood 32° = FL32

Illuminance Cone Diagrams

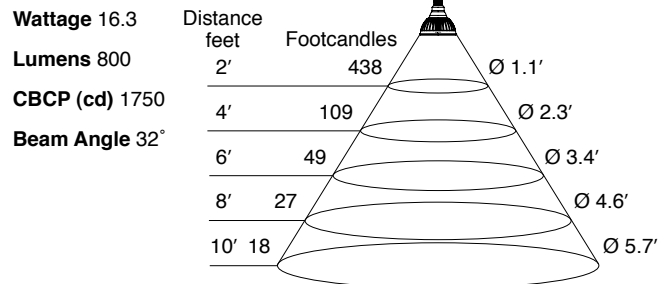
16P30S/830SP8



16P30S/830NFL23



16P30S/830FL32





Ordering Information

Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
16P30L/827SP8	120	PAR30	E26	15.6	2700K	8°	710	45.5	40,000	12500	81	> 0.70	70W Halogen	0.51 (230)	●
16P30L/827NFL23	120	PAR30	E26	16.3	2700K	23°	780	47.9	40,000	3600	80	> 0.70	70W Halogen	0.57 (260)	
16P30L/827FL32	120	PAR30	E26	16.3	2700K	32°	780	47.9	40,000	1650	80	> 0.70	60W Halogen	0.57 (260)	●
16P30L/830SP8	120	PAR30	E26	15.6	3000K	8°	730	46.8	40,000	12700	82	> 0.70	70W Halogen	0.51 (230)	●
16P30L/830NFL23	120	PAR30	E26	16.3	3000K	23°	800	49.1	40,000	3800	80	> 0.70	75W Halogen	0.57 (260)	●
16P30L/830FL32	120	PAR30	E26	16.3	3000K	32°	800	49.1	40,000	1750	80	> 0.70	65W Halogen	0.57 (260)	●
16P30L/840SP8	120	PAR30	E26	15.6	4000K	8°	740	47.4	40,000	12800	84	> 0.70	70W Halogen	0.51 (230)	●
16P30L/840NFL23	120	PAR30	E26	16.3	4000K	23°	800	49.1	40,000	3800	86	> 0.70	75W Halogen	0.57 (260)	
16P30L/840FL32	120	PAR30	E26	16.3	4000K	32°	800	49.1	40,000	1750	86	> 0.70	65W Halogen	0.57 (260)	

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens (± 10%).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

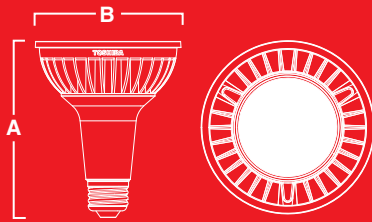
Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model PAR30 Long Neck

MOL (A) 4.52" (114.8 mm)

Diameter (B) 3.74" (95 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	50W Halogen	65W Halogen	75W Halogen
16P30L/830SP8	\$151.36	\$217.36	\$261.36
16P30L/830NFL23	\$148.28	\$214.28	\$258.28
16P30L/830FL32	\$148.28	\$214.28	\$258.28

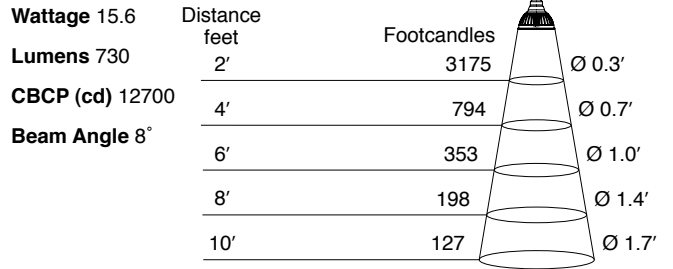
Note: Energy Savings based on using one bulb for 40,000 hr rated life at 11c/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

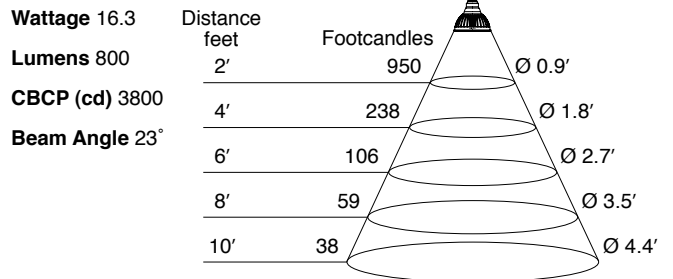
16	P30L	827	SP8
Wattage 15.6/16.3 Watts = 16	Lamp Type PAR30 LN = P30L	CRI + CCT 80 CRI + 2700K = 827 80 CRI + 3000K = 830 86 CRI + 4000K = 840	Beam Angle Spot 8° = SP8 Narrow Flood 25° = NFL25 Flood 35° = FL35

Illuminance Cone Diagrams

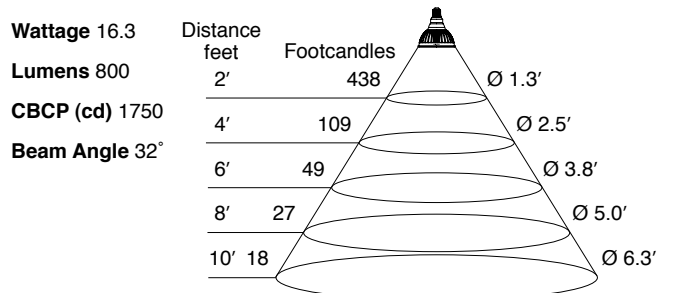
16P30L/830SP8



16P30L/830NFL23



16P30L/830FL32



PAR38 1000 Series



Ordering Information

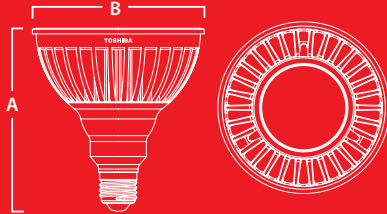
Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
19P38/827SP8	120	PAR38	E26	19.2	2700K	8°	900	46.9	40,000	14200	81	>0.70	70W Halogen	1.09 (495)	●
20P38/827NFL25	120	PAR38	E26	20.3	2700K	25°	970	47.8	40,000	3400	80	>0.70	75W Halogen	1.18 (535)	●
20P38/827FL35	120	PAR38	E26	20.3	2700K	35°	970	47.8	40,000	1800	80	>0.70	75W Halogen	1.18 (535)	●
19P38/830SP8	120	PAR38	E26	19.2	3000K	8°	920	47.9	40,000	14350	81	>0.70	75W Halogen	1.09 (495)	●
20P38/830NFL25	120	PAR38	E26	20.3	3000K	25°	1000	49.3	40,000	3500	80	>0.70	75W Halogen	1.18 (535)	●
20P38/830FL35	120	PAR38	E26	20.3	3000K	35°	1000	49.3	40,000	1900	80	>0.70	80W Halogen	1.18 (535)	●
19P38/835SP8	120	PAR38	E26	19.2	3500K	8°	930	48.4	40,000	14500	82	>0.70	75W Halogen	1.09 (495)	●
20P38/835NFL25	120	PAR38	E26	20.3	3500K	25°	1000	49.3	40,000	3500	85	>0.70	75W Halogen	1.18 (535)	●
20P38/835FL35	120	PAR38	E26	20.3	3500K	35°	1000	49.3	40,000	1900	85	>0.70	80W Halogen	1.18 (535)	●
19P38/840SP8	120	PAR38	E26	19.2	4000K	8°	940	49.0	40,000	14600	84	>0.70	75W Halogen	1.09 (495)	●
20P38/840NFL25	120	PAR38	E26	20.3	4000K	25°	1000	49.3	40,000	3500	86	>0.70	75W Halogen	1.18 (535)	●
20P38/840FL35	120	PAR38	E26	20.3	4000K	35°	1000	49.3	40,000	1900	86	>0.70	80W Halogen	1.18 (535)	●

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens ($\pm 10\%$).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model PAR38
MOL (A) 5.03" (127.9 mm)
Diameter (B) 4.76" (121 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	45W Halogen	75W Halogen	90W Halogen
19P38/830SP8	\$113.52	\$245.52	\$311.52
20P38/830NFL25	\$108.68	\$240.68	\$306.68
20P38/830FL35	\$108.68	\$240.68	\$306.68

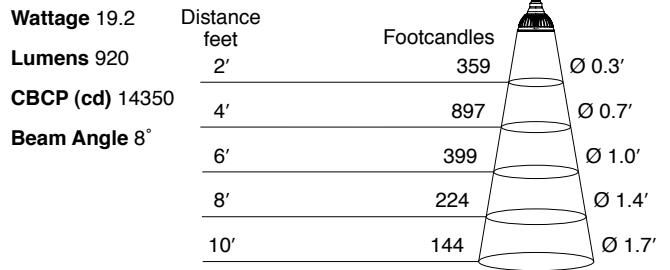
Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11c/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

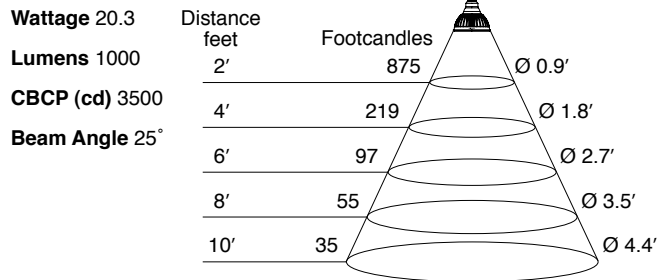
19	P38	827	SP8
Wattage	Lamp Type	CRI + CCT	Beam Angle
19.3 Watts = 19	PAR38 = P38	80 CRI + 2700K = 827	Spot 8° = SP8
20.3 Watts = 20		80 CRI + 3000K = 830	Narrow Flood 25° = NFL25
		85 CRI + 3500K = 835	Flood 35° = FL35
		86 CRI + 4000K = 840	

Illuminance Cone Diagrams

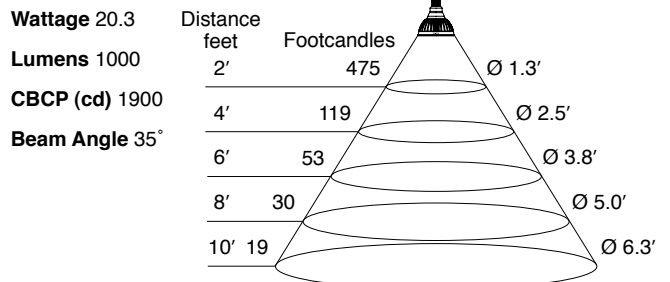
19P38/830SP8



20P38/830NFL25



20P38/830FL35





Ordering Information

Ordering Code	Input Voltage (VAC)	Lamp Shape	Base Type	Wattage (W)	CCT ¹	Beam Angle	Initial Lumens (lm) ²	Lamp Efficacy (lm/W)	Rated Life (hrs) ³	CBCP (cd)	CRI	Power Factor	Equivalency ⁴	Lamp Weight lb (g)	
20P38/27LNF-UP	120	PAR38	E26	20.3	2700K	25°	1090	53.7	40,000	4240	84	> 0.77	90W Halogen	1.18 (535)	●
20P38/27LFL-UP	120	PAR38	E26	20.3	2700K	35°	1090	53.7	40,000	2750	84	> 0.77	100W Halogen	1.18 (535)	●
20P38/30LNF-UP	120	PAR38	E26	20.3	3000K	25°	1120	55.2	40,000	4400	84	> 0.77	90W Halogen	1.18 (535)	●
20P38/30LFL-UP	120	PAR38	E26	20.3	3000K	35°	1120	55.2	40,000	2860	84	> 0.77	110W Halogen	1.18 (535)	●
20P38/35LNF-UP	120	PAR38	E26	20.3	3500K	25°	1120	55.2	40,000	4400	84	> 0.77	90W Halogen	1.18 (535)	●
20P38/35LFL-UP	120	PAR38	E26	20.3	3500K	35°	1120	55.2	40,000	2860	84	> 0.77	110W Halogen	1.18 (535)	●
20P38/40LNF-UP	120	PAR38	E26	20.3	4000K	25°	1170	57.6	40,000	4600	85	> 0.77	90W Halogen	1.18 (535)	●
20P38/40LFL-UP	120	PAR38	E26	20.3	4000K	35°	1170	57.6	40,000	2990	85	> 0.77	110W Halogen	1.18 (535)	●

- CCT Range complies to ANSI C78.377-2008.
- Thermally stable typical lumens (± 10%).
- Rated life is based on 70% lumen maintenance and engineering testing and probability analysis.
- Equivalency based on the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark Tool.

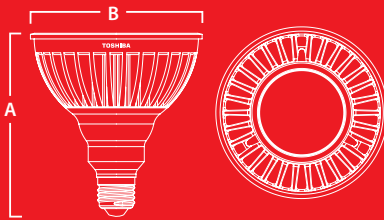
Note: All information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility. All lamps meet ENERGY STAR Integral LED Lamp requirements and will be submitted for testing. Five-year warranty based on 12 hr/day usage.

Dimensions

Model PAR38

MOL (A) 5.03" (127.9 mm)

Diameter (B) 4.76" (121 mm)



Note: Lamp shape conforms to ANSI C78.21-2003. Designed to comply with RoHS Directive 2002/95/EC.

Energy Savings

Ordering Code	45W Halogen	75W Halogen	90W Halogen
20P38/30LNF-UP	\$108.68	\$218.80	\$306.68
20P38/30LFL-UP	\$108.68	\$218.80	\$306.68

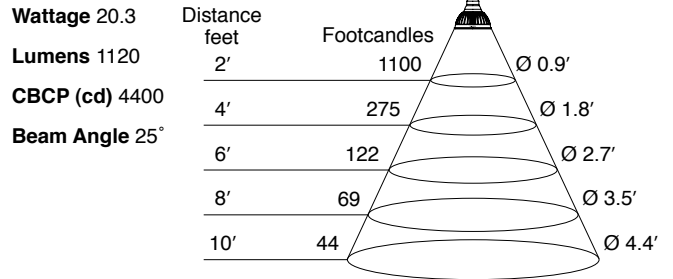
Note: Energy Savings based on using one bulb for 25,000 hr rated life at 11c/kWh. Does not include maintenance and replacement lamp savings.

Ordering Guide

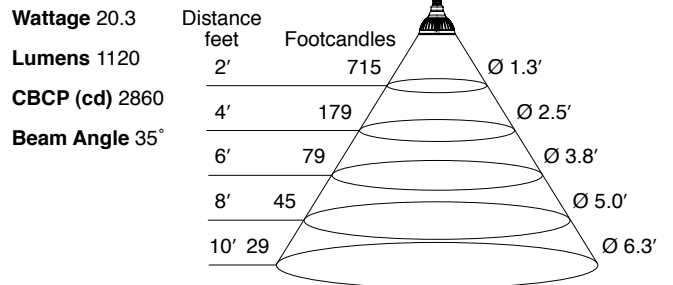
20	P38	27	L	NF	-	UP
Wattage	Lamp Type	CRI + CCT	Lumen	NF = Narrow Flood		Packaging
20.3 Watts = 20	PAR38 = P38	2700K = 27	1100 Series = L	FL = Flood		US Professional Package = UP
		3000K = 30				
		3500K = 35				
		4000K = 40				

Illuminance Cone Diagrams

20P38/30LNF-UP



20P38/30LFL-UP



Ordering Code	Initial Lumens (lm) ¹	Wattage (W)	Beam Angle	CCT ²	CRI	Rated Life (hrs) ³	Input Voltage (VAC)		
A19 450 series									
8A19/27F-UP	450	8.4	N/A	2700K	81	25,000	120		●
8A19/40F-UP	500	8.4	N/A	4000K	82	25,000	120		●
8A19/27FZ-UP Non-dimmable	450	7.7	N/A	2700K	81	25,000	120		●
8A19/40FZ-UP Non-dimmable	500	7.7	N/A	4000K	82	25,000	120		●
Candelabra 180 Series									
4B11/27CF-UP Frosted	185	3.8	N/A	2700K	82	25,000	120		●
4B11/27CC-UP Clear	175	3.8	N/A	2700K	82	25,000	120		●
MR16 GU5.3 300 Series									
6MR16/827SP8	270	6.2	8°	2700K	80	25,000	12		●
7MR16/827NFL25	300	6.7	25°	2700K	80	25,000	12		●
7MR16/827FL35	300	6.7	35°	2700K	80	25,000	12		●
6MR16/830SP8	275	6.2	8°	3000K	80	25,000	12		●
7MR16/830NFL25	310	6.7	25°	3000K	80	25,000	12		●
7MR16/830FL35	310	6.7	35°	3000K	80	25,000	12		●
6MR16/840SP8	280	6.2	8°	4000K	85	25,000	12		●
7MR16/840NFL25	320	6.7	25°	4000K	86	25,000	12	Pending	
7MR16/840FL35	320	6.7	35°	4000K	86	25,000	12	Pending	
MR16 GU5.3 450 Series									
9MR16/27FNF-UP	410	9.0	25°	2700K	84	25,000	12	N/A	
9MR16/27FFL-UP	415	9.0	35°	2700K	84	25,000	12	N/A	
9MR16/30FNF-UP	440	9.0	25°	3000K	84	25,000	12	N/A	
9MR16/30FFL-UP	445	9.0	35°	3000K	84	25,000	12	N/A	
9MR16/40FNF-UP	470	9.0	25°	4000K	85	25,000	12	N/A	
9MR16/40FFL-UP	475	9.0	35°	4000K	85	25,000	12	N/A	
MR16 GU5.3 500 Series									
9MR16/27GNF-UP	510	9.1	25°	2700K	81	25,000	12	N/A	
9MR16/27GFL-UP	510	9.1	35°	2700K	81	25,000	12	N/A	
9MR16/30GNF-UP	525	9.1	25°	3000K	82	25,000	12	N/A	
9MR16/30GFL-UP	525	9.1	35°	3000K	82	25,000	12	N/A	
9MR16/40GNF-UP	540	9.1	25°	4000K	82	25,000	12	N/A	
9MR16/40GFL-UP	540	9.1	35°	4000K	82	25,000	12	N/A	
MR16 GU10 300 Series									
7GU10/827NFL25	270	6.5	25°	2700K	80	25,000	120	N/A	
7GU10/830NFL25	280	6.5	25°	3000K	81	25,000	120	N/A	
BR30 650 Series									
14BR30/27H-UP	650	13.8	N/A	2700K	85	40,000	120	N/A	
PAR20 400 Series									
9P20/827SP8	380	8.6	8°	2700K	80	25,000	120		●
9P20/827NFL25	390	9.0	25°	2700K	80	25,000	120		●
9P20/830SP8	385	8.6	8°	3000K	81	25,000	120		●
9P20/830NFL25	400	9.0	25°	3000K	80	25,000	120		●





Ordering Code	Initial Lumens (lm) ¹	Wattage (W)	Beam Angle	CCT ²	CRI	Rated Life (hrs) ³	Input Voltage (VAC)	ENERGY STAR
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PAR30 Short Neck 800 Series

16P30S/827SP8	710	15.6	8°	2700K	81	40,000	120	●
16P30S/827NFL23	780	16.3	23°	2700K	80	40,000	120	●
16P30S/827FL32	780	16.3	32°	2700K	80	40,000	120	●
16P30S/830SP8	730	15.6	8°	3000K	82	40,000	120	●
16P30S/830NFL23	800	16.3	23°	3000K	80	40,000	120	●
16P30S/830FL32	800	16.3	32°	3000K	80	40,000	120	●
16P30S/840SP8	740	15.6	8°	4000K	84	40,000	120	●
16P30S/840NFL23	800	16.3	23°	4000K	86	40,000	120	●
16P30S/840FL32	800	16.3	32°	4000K	86	40,000	120	●

PAR30 Long Neck 800 Series

16P30L/827SP8	710	15.6	8°	2700K	81	40,000	120	●
16P30L/827NFL23	780	16.3	23°	2700K	80	40,000	120	●
16P30L/827FL32	780	16.3	32°	2700K	80	40,000	120	●
16P30L/830SP8	730	15.6	8°	3000K	82	40,000	120	●
16P30L/830NFL23	800	16.3	23°	3000K	80	40,000	120	●
16P30L/830FL32	800	16.3	32°	3000K	80	40,000	120	●
16P30L/840SP8	740	15.6	8°	4000K	84	40,000	120	●
16P30L/840NFL23	800	16.3	23°	4000K	86	40,000	120	●
16P30L/840FL32	800	16.3	32°	4000K	86	40,000	120	●

PAR38 1000 Series

19P38/827SP8	900	19.2	8°	2700K	80	40,000	120	●
20P38/827NFL25	970	20.3	25°	2700K	80	40,000	120	●
20P38/827FL35	970	20.3	35°	2700K	80	40,000	120	●
19P38/830SP8	925	19.2	8°	3000K	80	40,000	120	●
20P38/830NFL25	1000	20.3	25°	3000K	80	40,000	120	●
20P38/830FL35	1000	20.3	35°	3000K	80	40,000	120	●
19P38/835SP8	930	19.2	8°	3500K	80	40,000	120	●
20P38/835NFL25	1000	20.3	25°	3500K	85	40,000	120	●
20P38/835FL35	1000	20.3	35°	3500K	85	40,000	120	●
19P38/840SP8	940	19.2	8°	4000K	82	40,000	120	●
20P38/840NFL25	1000	20.3	25°	4000K	86	40,000	120	●
20P38/840NFL35	1000	20.3	35°	4000K	86	40,000	120	●

PAR38 1100 Series

20P38/27LNF-UP	1090	20.3	25°	2700K	84	40,000	120	●
20P38/27LFL-UP	1090	20.3	35°	2700K	84	40,000	120	●
20P38/30LNF-UP	1120	20.3	25°	3000K	84	40,000	120	●
20P38/30LFL-UP	1120	20.3	35°	3000K	84	40,000	120	●
20P38/35LNF-UP	1120	20.3	25°	3500K	84	40,000	120	●
20P38/35LFL-UP	1120	20.3	35°	3500K	84	40,000	120	●
20P38/40LNF-UP	1170	20.3	25°	4000K	85	40,000	120	●
20P38/40LFL-UP	1170	20.3	35°	4000K	85	40,000	120	●

● ENERGY STAR® qualified.

1. Thermally stable typical lumens (± 10%)
 2. CCT Range complies to ANSI C78.377-2008
 3. Rated life is based on 70% lumen maintenance, engineering testing and probability analysis



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In addition to Toshiba's portfolio of energy efficient LED lighting products, Toshiba International Corporation supports Environmental Vision 2050, a corporate initiative to reduce global energy demand.

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